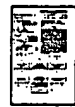




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## JP2229832A2: PRODUCTION OF GRANULAR AND CELLULAR CHITOSAN DERIVATIVE HAVING SULFONE GROUP

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Country: **JP Japan**

Kind:

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Issued/Filed Date(s): **Sept. 12, 1990 / March 3, 1989**

Application Number: **JP1989000051091**

IPC Class: **C08H 5/00; B01J 39/22;**

Abstract: **Purpose:** To obtain a derivative capable of providing an exchange resin, etc., stable within the whole pH range and having a high strength and desired sulfone groups by dissolving low-molecular weight chitosan into an acidic aqueous solution, dripping the resultant solution into a basic solution, coagulating the above-mentioned aqueous solution, then acetylating, crosslinking and sulfonating the obtained product.  
**Constitution:** Low-molecular weight chitosan is dissolved in an acidic aqueous solution and the obtained aqueous solution is then dripped into a basic solution and coagulated to provide granular and cellular chitosan, which is subsequently acetylated with acetic anhydride, crosslinked with a diepoxy and then sulfonated with N,N'-dimethylformamide-sulfur trioxide complex in the N,N'-dimethylformamide to afford a granular cellular chitosan derivative having sulfone groups. The deacetylation degree is 40%, preferably 5% in the course of the reaction.  
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Other Abstract Info: **CHEMABS 114(04)026071W CAN114(04)026071W DERABS C90-323717  
DERC90-323717**

Foreign References: **(No patents reference this one)**



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